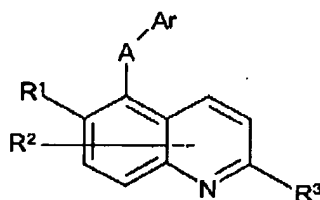


Amendment D  
 USSN 09/925,883

Attorney Docket R0072B-REG

# CLAIM LISTING:

1. (Currently amended) A compound selected from the group of compounds represented by Formula I:



wherein:

A is a  $\text{CH}_2$ ,  $\text{CH}(\text{OH})$ ,  $\text{C}(\text{O})$ ,  $\text{C}=\text{NOR}^4$ ,  $\text{NR}^5$ ,  $\text{O}$ ,  $\text{S}$ ,  $\text{S}(\text{O})$ , or  $\text{S}(\text{O})_2$ , where  $\text{R}^4$  is hydrogen or alkyl and  $\text{R}^5$  is hydrogen, alkyl, or acyl;

Ar is an optionally-substituted phenyl;

$\text{R}^1$  is cycloalkyl, haloalkyloxy, hydroxyalkyloxy, ~~alkoxyalkyloxy~~, hydroxy, halo, or cyano ~~[[,]]~~ or  $\text{OSO}_2\text{R}^{11}$ , where  $\text{R}^{11}$  is selected from alkyl, cycloalkyl, and haloalkyl;

$\text{R}^2$  is hydrogen, alkyl, alkenyl, alkoxy, hydroxy, halo, or haloalkyl ~~[[,]]~~ ~~heteroalkyl~~, ~~alkylsulfanyl~~, ~~alkylsulfinyl~~, ~~alkylsulfonyl~~, nitro, cyano, or  $\text{NR}^9\text{R}^{10}$  where  $\text{R}^9$  and  $\text{R}^{10}$  are each independently selected from hydrogen, alkyl, and acyl; and  $\text{R}^3$  represents substitution at any one of carbons C3, C4, C7 or C8;

$\text{R}^3$  is  $\text{SR}^{12}$ ,  $\text{SOR}^{12}$ ,  $\text{SO}_2\text{R}^{12}$ , or  $\text{SO}_2\text{NR}^{13}\text{R}^{14}$  wherein,

$\text{R}^{12}$  is alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, mono or dialkylaminoalkyl, carboxyalkyl, or alkoxy-carbonylalkyl;

$\text{R}^{13}$  is hydrogen or alkyl, and

$\text{R}^{14}$  is hydrogen, alkyl, cycloalkyl, cycloalkylalkyl, hydroxyalkyl, alkoxyalkyl, alkoxy-carbonylalkyl, aminoalkyl, aryl, or aralkyl; and

prodrugs, individual isomers, mixtures of isomers, and pharmaceutically acceptable salts thereof.

2. (Original). A compound of Claim 2 wherein A is  $\text{S}$ .

3. (Currently amended) A compound of Claim 2 wherein

Amendment D  
USSN 09/925,883

Attorney Docket R0072B-RLG

$R^1$  is alkoxy, hydroxy, halogen or cyano;

$R^2$  is hydrogen or methyl; and

$R^3$  is  $\text{SO}_2\text{R}^{12}$   $\text{S}(\text{O})_{0-2}\text{R}^{12}$  where  $\text{R}^{12}$  is alkyl.

4. (Original) A compound of Claim 3 wherein Ar is unsubstituted phenyl.
5. (Original) A compound of Claim 3 wherein Ar is 4-substituted phenyl or 2-substituted phenyl.
6. (Original) A compound of Claim 3 wherein Ar is a disubstituted phenyl.
7. (Previously presented) A compound of Claim 3 wherein Ar is optionally substituted at one or more positions with a substituent or substituents independently selected from the group consisting of fluoro, chloro, bromo, ethoxy, and methoxy.
8. (Original) A compound of Claim 1 wherein A is  $-\text{C}(\text{O})-$ .
9. (Currently amended) A compound of Claim 8 wherein
  - $R^1$  is alkoxy, hydroxy, halogen or cyano;
  - $R^2$  is hydrogen or methyl; and
  - $R^3$  is  $\text{SO}_2\text{R}^{12}$   $\text{S}(\text{O})_{0-2}\text{R}^{12}$  where  $\text{R}^{12}$  is alkyl.
10. (Original) A compound of Claim 9 wherein Ar is unsubstituted phenyl.
11. (Previously presented) A compound of Claim 9 wherein Ar is 4-substituted phenyl, 2-substituted phenyl, or disubstituted phenyl.
12. Canceled

Amendment D  
USSN 09/925,883

Attorney Docket R0072B-RLCJ

13. (Previously presented) A compound of Claim 9 wherein Ar is optionally substituted at one or more positions with a substituent or substituents independently selected from the group consisting of fluoro, chloro, bromo, ethoxy, and methoxy.

14. (Original) A compound of Claim 1 wherein A is  $\text{CH}_2$ .

15. (Currently amended) A compound of Claim 14 wherein

$\text{R}^1$  is alkoxy, hydroxy, halogen or cyano;

$\text{R}^2$  is hydrogen or methyl; and

$\text{R}^3$  is  $\text{SO}_2\text{R}^{12}$   $\text{S}(\text{O})_{0-2}\text{R}^{12}$  where  $\text{R}^{12}$  is alkyl.

16. (Original) A compound of Claim 15 wherein Ar is unsubstituted phenyl.

17. (Previously presented) A compound of Claim 15 wherein Ar is 4-substituted phenyl, 2-substituted phenyl, or disubstituted phenyl.

18. Canceled.

19. (Previously presented) A compound of Claim 15 wherein Ar is optionally substituted at one or more positions with a substituent or substituents independently selected from the group consisting of fluoro, chloro, bromo, ethoxy, and methoxy.

20. (Original) A compound of Claim 1 wherein A is  $-\text{O}-$ .

21. (Currently amended) A compound of Claim 20 wherein

$\text{R}^1$  is alkoxy, hydroxy, halogen or cyano;

$\text{R}^2$  is hydrogen or methyl; and

$\text{R}^3$  is  $\text{SO}_2\text{R}^{12}$   $\text{S}(\text{O})_{0-2}\text{R}^{12}$  where  $\text{R}^{12}$  is alkyl.

22. (Original) A compound of Claim 21 wherein Ar is unsubstituted phenyl.

Amendment D  
USPN 09/925,883

Attorney Docket R0072B-REG

23. (Original) A compound of Claim 21 wherein Ar is 4-substituted phenyl or 2-substituted phenyl.

24. (Original) A compound of Claim 21 wherein Ar is a disubstituted phenyl.

25. (Previously presented) A compound of Claim 21 wherein Ar is optionally substituted at one or more positions with a substituent or substituents independently selected from the group consisting of fluoro, chloro, bromo, ethoxy, and methoxy.

26. (Original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1 and a pharmaceutically acceptable excipient.

27. (Currently amended) A method of treatment of an inflammatory disease ~~[[,]] cancer~~ ~~[[,]]~~ or pain in a mammal treatable by administration of a selective COX II inhibitor comprising administration to the mammal a therapeutically effective amount of a compound of Claim 1.

28. (Currently amended) The method of Claim 27, wherein the disease or condition is ~~pain and/or an inflammatory disease~~ selected from myositis, ~~synovitis~~, arthritis (rheumatoid arthritis and osteoarthritis), ~~joint~~, back pain, dental pain, pain and inflammation associated with sports injuries, sprains, strains, ~~headache~~, tendonitis, and ankylosing spondylitis, ~~and bursitis~~.

29. (Currently amended) A method of treatment of a disease or condition in a mammal comprising administration to the mammal a therapeutically effective amount of a compound of Claim 1, wherein the disease is dysmenorrhea or premature labor.

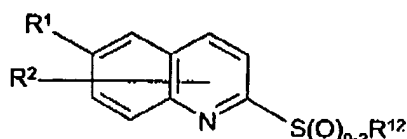
30. (Canceled)

31. (Previously presented) A process for preparing a compound selected from the group of compounds of Claim 1, which comprises

Amendment D  
 USSN 09/925,883

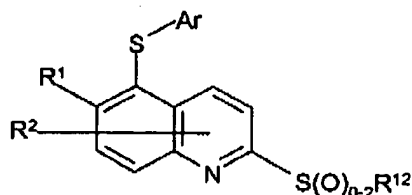
Attorney Docket R0072B-REL

reacting a compound of the formula



wherein  $R^1$ ,  $R^2$ , and  $R^{12}$  are as defined in Claim 1,

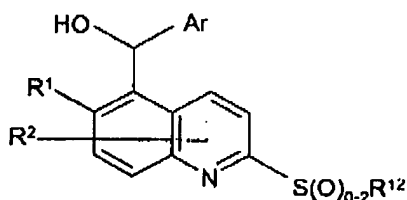
with a compound of the formula  $ArSH$ , to provide a compound of Formula I:



wherein  $Ar$ ,  $R^1$ ,  $R^2$ , and  $R^{12}$  are as defined in Claim 1.

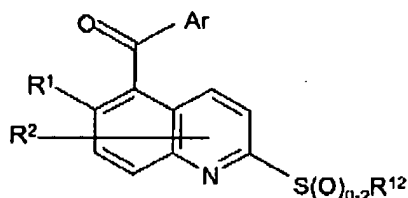
32. (Previously presented) A process for preparing a compound selected from the group of compounds of Claim 1, which comprises

reacting a compound of general formula



wherein  $R^1$ ,  $R^2$ , and  $R^{12}$  are as defined in Claim 1,

with an oxidizing agent to provide a compound of Formula I:



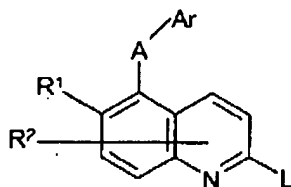
wherein  $Ar$ ,  $R^1$ ,  $R^2$ , and  $R^{12}$  are as defined in Claim 1.

33. (Currently amended) A process for preparing a compound selected from the group of compounds of Claim 1, which comprises

Amendment D  
USSN 09/925,883

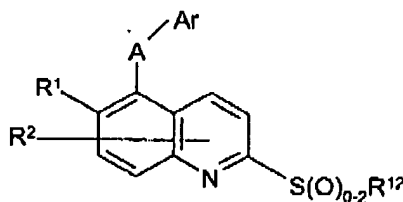
Attorney Docket R0072B-RFG

reacting a compound of the formula



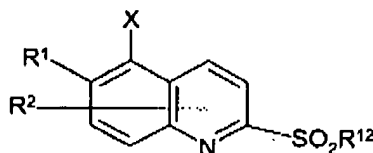
wherein  $A$  is  $-NR^5-$  or  $-O-$ , and  $L$  is a leaving group,

with a compound of the formula  $NaSR^{12}$ , followed by optional oxidation to provide a compound of Formula 1:



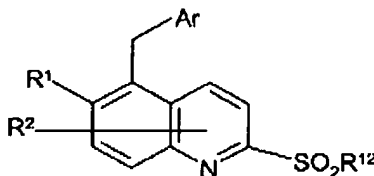
34. (Previously presented) A process for preparing a compound selected from the group of compounds of Claim 1, which comprises

reacting a compound of the formula



wherein  $X$  is a halogen,

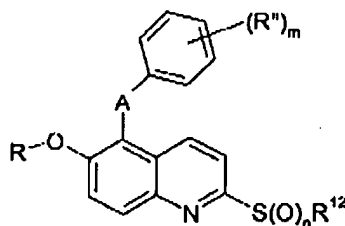
with an aralkyl anion compound to provide a compound of Formula 1:



35. (Previously presented) A compound having the formula:

Amendment D  
USPN 09/925,883

Attorney Docket R0072B-RFG



wherein:

A is a  $-\text{CH}_2-$ ,  $-\text{C}(\text{O})-$ ,  $-\text{O}-$ , or  $\text{S}$  ;

R is hydrogen, alkyl, haloalkyl, or  $\text{SO}_2\text{R}^{11}$  where  $\text{R}^{11}$  is selected from alkyl, cycloalkyl, and haloalkyl;

$\text{R}^{12}$  is alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, mono or dialkylaminoalkyl, carboxyalkyl, or alkoxycarbonylalkyl;

$\text{R}''$  is at each occurrence independently selected from halo, cyano, nitro, alkyl, hydroxy, alkoxy, amino, acylamino, alkylamino, dialkylamino, haloalkyl, haloalkoxy, and heteroalkyl;

$m$  is 0, 1, 2, 3, or 4; and

$n$  is 1, 2 or 3; and

prodrugs, individual isomers, mixtures of isomers, and pharmaceutically acceptable salts thereof.

36. (Previously presented) A compound according to claim 35, or a pharmaceutically-acceptable salt or prodrug thereof, in which:

A is S;

R is  $\text{CH}_3$ ;

$\text{R}''$  is at each occurrence independently selected from halo, cyano,  $\text{C}_{1-4}$  alkyl, hydroxy, methoxy, ethoxy, trifluoromethyl, or trifluoromethoxy; and

$m$  is 0, 1, or 2.

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